

Helmholtz Centre for Materials and Energy GmbH HZB

Institute for Applied Materials Research

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

HZB science investigates fundamental physical effects in materials and develops technologies for their production. The focus is on materials for energy conversion (solar cells) and storage (solar fuels, batteries) as well as quantum materials that could be relevant for new, energy-efficient information technologies.

Research and development on aluminium alloys and cellular metals

Hahn-Meitner-Platz 1
14109 Berlin
Berlin
Germany
www.helmholtz-berlin.de/index_de.html



Organisation type
Non-university research institution

Sectors
No specific sector

Employees
500 and more

Turnover
More than €50m

Funding

Main areas covered
Research on materials

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Training, Consulting, Engineering, HR services, Validation, Simulation, Technology transfer	✓	✓	
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	
Modelling and simulation Life-cycle analysis, Multiphysics simulation, Materials	✓	✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
Cellular materials (foam materials) Closed-pore, Open-pore, Syntactic foams	✓	✓	
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
Metals Aluminium, Intermetallic alloys	✓	✓	
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

Machine translation

This organisation has been machine-translated based on data provided in German.

Contacts

Mr Dr. Francisco Garcia-Moreno

*Deputy Director of the Institute for Applied
Materials Research*

garcia-moreno@helmholtz-berlin.de